

WESTON SOLUTIONS, INC., REGION I START SITE HEALTH AND SAFETY PLAN (HASP)**Prepared by:** Colin Cardin**W.O. No.:** 20114-091-998-0912-00**Modified by:** George Mavris**Project Identification:** Contract No. EP-W-05-042 **TDD NO:** 13-09-0009 **EPA Contact:** Mia Pasquerella**Site Name:** Turkey Brook **Site Address:** 20 McLennan Drive, Oakville, Connecticut

Site History: The Turkey Brook Oil Site (the site) is located at 20 McLennan Drive, Oakville, Connecticut. The geographic coordinates, as measured from the approximate center of the site are 41° 35' 54.01" north latitude and 73° 04' 32.00" west longitude. The site building is occupied by Quality Automatics, an active automotive parts manufacturing business. The business is operating on the property as a tenant. The site is bordered by Turkey Brook and various industrial properties to the west, by McLennan Drive to the north, by industrial properties to the east, and by residential properties to the south. Turkey Brook is a navigable waterway which flows south into Steele Brook. Steele Brook flows to the southeast and enters the Naugatuck River. Due to various oil releases at the Quality Automatics facility over time, a layer of oil exists on top of the groundwater underneath the facility, causing oil to seep out of the banks and into Turkey Brook.

On 31 August 2012, a sheen was observed in Turkey Brook, in an area located between Quality Automatics to the east and Rintec Corporation to the west, and reported to the Connecticut Department of Energy & Environmental Protection (CT DEEP). CT DEEP responded to the scene to gather more information and investigate the potential source of the spill. Upon arrival at the scene, the CT DEEP deployed absorbent boom to mitigate further impact from the spill. The CT DEEP responder and the CT DEEP Site Assessment and Support Unit performed a subsurface investigation to determine the source of the oil released. They were able to confirm that the oil released was coming from oil floating on top of the groundwater which was migrating from underneath the building occupied by Quality Automatics at 20 McLennan Drive. Following the subsurface investigation, CT DEEP met with the owner of the business and toured the facility to observe on-site operations. While observing the operations at the facility, a 55-gallon drum was knocked over by an employee. The employees promptly cleaned up the spill by sweeping the oil into a corner of the building, then applying speedi-dry. The CT DEEP representative expressed concern regarding their clean up procedures and investigated the area where the oil and oily debris were stored. The CT DEEP representative noticed a gap between the floor and the wall which would provide a pathway for the oil to migrate into the soil and onto the groundwater. It was determined that this clean up procedure had been in place for a length of time and that the amount of oil that had been released over time was unknown. The operations and oil storage in the area appeared to be contributing to the problem via a cracked oil hose that was leaking product onto the floor in this same area. The owner of Quality Automatics assumed responsibility for the release and agreed to implement clean up and remediation actions with CT DEEP providing agency oversight.

On 9 October 2012, the potentially responsible party (PRP) contacted the CT DEEP and notified them that they were financially unable to continue clean up actions at the site. CT DEEP responded to the site and noticed a visible sheen on the water. CT DEEP called the National Response Center to report the incident and assumed control of the response. They proceeded to deploy booms and conduct clean up actions. Clean up actions consisted of continual replacement of absorbent boom in three locations on Turkey Brook and the installation of an oil recovery system. The oil recovery system includes two wells with an oil sensor and a pump which pumps oil off of the surface of the groundwater when the sensor is triggered. This system collected approximately 250 gallons of oil which is currently being stored in a secure location on site in 55 gallon drums.

On 25 July 2013, CT DEEP requested assistance from the U.S. Environmental Protection Agency (EPA) with the source removal actions implemented at the site. EPA and CT DEEP personnel conducted a site walk on 21 August 2013 and observed a sheen on the water that was being contained by absorbent booms. The absorbent booms in two of the three deployment areas was completely saturated and potentially contributing to the current sheen. The water level of Turkey Brook was observed to be low, providing a conduit for additional oil to be released from the banks of the brook. EPA and CT DEEP personnel met with the tenant and property owner, and the owner and tenant provided verbal confirmation to allow EPA to assume responsibility of the clean-up actions due to a lack of funds and resources from both the PRP and the CT DEEP. On 22 August 2013, the OSC initiated an emergency action to remediate the visible sheen on Turkey Brook and to prevent further oil from migrating and contaminating areas downstream from the site. Emergency response actions will be initiated by the OSC due to the substantial threat of a discharge from the saturated absorbent boom and the oil sheen on the water. The activities will consist of mobilizing appropriate personnel, equipment, utilities, and supplies; removing oil-contaminated booms from Turkey Brook and replacing them with clean absorbent booms; removing any visible oil sheen from Turkey Brook using appropriate absorbent material; storing any oil or oily debris collected in appropriate containers on site in a secure location; marking containers for identification and disposal; and ensuring that the stored drums are secure and do not continue to pose a substantial threat of a discharge to Turkey Brook.

An on-site reconnaissance was conducted by Weston Solutions, Inc., Superfund Technical Assessment and Response Team (START) on 10 October 2013. Currently, there is no system in place to separate and collect the oil from the groundwater. Twenty-one 55-gallon drums containing used oil booms are staged on site. One boom was in place on Turkey Brook near the point where the release of oil occurred and another was placed downstream near the road. No oil or sheen was noted behind the boom near the release, however, a prominent sheen was observed behind the second boom. On-site operations (machine shop) at the facility will be moved from the current location at 20 McLennan Drive to the facility located across the street (south) at 15 McLennan Drive.

A second on-site reconnaissance was conducted by START, EPA, ERRS, CT DEEP Contractor on 25 October 2013. Six relatively new booms were observed and a sheen was noted upstream of some of the booms in Turkey Brook along the northern side of McLellan Drive. A prominent sheen was also noted in the water on the south side of McLellan Road where the surface water in Turkey Brook flowed against the concrete wall along the property line of the QAI facility located at 15 McLellan Road. The team entered the machine shop and back room where the oil spill occurred to observe potential boring locations. A maximum reading of 107 ppm was recorded for VOCs on the MultiRAE. The team proceeded outside to the area of the monitoring wells along the northwestern section of the property. An oil/water interface probe was used to measure the depth to water and oil product thickness in three of the monitoring wells. Depth to water in the southernmost 4-inch monitoring well 10.26 feet below the top of the PVC casing and a product thickness of 0.04 feet was measured. Product thickness increased going northward to the second 4-inch monitoring well (0.99 feet) to the 2-inch monitoring well (4.26 feet) near the concrete pad in front of the back door. Headspace readings in these wells ranged from 3 – 10 ppm.

Scope of Work: (describe briefly, attach site map including work zones Figure 1)

Task 1: Conduct an on-site reconnaissance (Completed).

Task 2: Conduct brush clearing.

Task 3: Collect surface and subsurface soil samples using hand augers, a coring machine, and a pneumatic hammer (inside of the building), and classify soil and collect soil samples.

Task 4: Collect surface and subsurface soil samples using a Geoprobe and pneumatic hammer (outside of buildings), and classify soil and collect soil samples.

Directions to Site: See Attached

Review and Approval Documentation:

Reviewed by:

Site Leader/Environmental Compliance Officer _____ Date:

Approved by: _____ Date: _____ ☒ START HSO

Verbal Approval (Emergency Response/Modifications)

Approval by: _____ Date:

Vehicle Use Assessment and Selection:

Driving is one of the most hazardous and frequent activities for Weston Employees. The most appropriate type of vehicle(s) authorized for use on this project is/are:

- ☒ Ford Expedition
- ☐ Ford F-250 Super Crew Cab Pick-Up Truck
- ☐ Ford F-350 Geoprobe (Extended Cab)
- ☒ Ford E-250 Econoline Van
- ☐ Freightliner Box Truck
- ☒ Other/Rental (List): sedan

The following Project Team Member's qualifications and experience in driving these types of vehicles was evaluated and found to be acceptable (Indicate vehicle type(s) next to employee name). All Region I START III members are experienced and qualified to drive the Ford Expedition and Ford F-250 Super Crew Cab Pick-Up Truck.

1. George Mavris
2. Eric Ackerman
3. Colin Cardin
4. Ken Robinson

Commute To Site Considerations: commute to site will be approximately 146 miles on heavily traveled highways and urban roadways, during morning and evening rush hours. START will acquire local lodging for site work lasting longer than one day. Some of commute may be in darkness, and roadways may be slippery from rain and leaves. Drivers should not text while driving and use cell phones sparingly if needed. It is illegal in the State of Connecticut to use hand-held cell phones.

On-Site: Parking is likely to be in the paved area of the facility. Cones will be used to demarcate parking areas.

The project site was evaluated and a Traffic Control Plan ☐ Is Required ☒ Is Not Required.

If Required, the Traffic control Plan can be found in Appendix E of this HASP

Hazard Assessment and Equipment Selection

In accordance with WESTON's Personal Protective Equipment Program and 29 CFR 1910.132, at the site prior to personnel beginning work, the field safety Officer (FSO) and/or the Site Leader have evaluated conditions and verified that the personal protective equipment selection outlined within this HASP is appropriate for the hazards known or expected to exist - Refer to Safety Officer Manual Section 2, Personal Protection Program, for guidance. For Region 1 START III projects, the site Leader is also the Environmental Compliance Officer unless otherwise noted.

☐ FSO ☐ Site Manager Signature: _____ Date: _____

☐ Dangerous Goods Shipping Coordinator (If Required):

Project start date: October 2013
Anticipated Site Visit date: 11/18 /13
End date: 12/31/13

Plan expiration date: 12/31/13

Amendments:

Figure 1 - Site map/work zones



| SITE SPECIFIC HAZARD EVALUATION | | | |
|---|---|--|----------------|
| If box is marked a hazard evaluation form/section must be completed. | | | |
| <input checked="" type="checkbox"/> CHEMICAL HAZARDS <input checked="" type="checkbox"/> BIOLOGICAL HAZARDS <input checked="" type="checkbox"/> PHYSICAL HAZARDS <input checked="" type="checkbox"/> RADIATION HAZARDS | | | |
| HEALTH AND SAFETY EVALUATION - CHEMICAL HAZARDS | | | |
| Chemical Contaminants of Concern – See Appendix A for data sheets | | | |
| Chemical Name/Matrix | Concentration | Chemical Name | Concentration |
| Total Petroleum Hydrocarbons (Extended Diesel Range Organics - EDRO) in soil | 932 mg/Kg | Total Petroleum Hydrocarbons (EDRO) in groundwater | 1,272,000 µg/L |
| <p>Chemicals taken onto Site by WESTON or subcontractors - Identify hazardous materials used or on-site and attach Material Safety Data Sheets (MSDSs) for all reagent type chemicals, solutions, or other identified materials that in normal use in performing tasks related to this project could produce hazardous substances. Ensure that all subcontractors and other parties working nearby are informed of the presence of these chemicals and the location of the MSDSs. Obtain from subcontractors and other parties, lists of the hazardous materials they use or have on-site and identify location of the MSDSs here. List chemicals and quantities below and locate MSDSs in Attachment B of this HASP.</p> | | | |
| Chemical Name | Quantity | Chemical Name | Quantity |
| Pentane: calibration grade | < 19 L | ABC Fire Extinguisher Material | < 20 pounds |
| Methane: calibration grade | < 100 L | Liqui-Nox | < 1 L |
| Isobutylene: calibration grade | < 17 L | Compressed Air | < 100 L |
| Hydrogen: Instrument Fuel | < 4 cu. ft. | Gasoline/diesel fuel | < 5 gallons |
| Methanol: decon fluid | < 5 L | Hexane: decon fluid | < 5 L |
| Isopropanol: decon fluid | < 5L | | |
| OSHA SITE SPECIFIC HAZARDOUS SUBSTANCES | | | |
| <p>The following substances may require specific medical, training, or monitoring based upon concentration or evaluation of risk. See the appropriate citation listed under 29 CFR 1910 or 1926 for additional information.</p> | | | |
| <input type="checkbox"/> 1910.1001 Asbestos | <input type="checkbox"/> 1910.1002 Coal tar pitch volatiles | <input type="checkbox"/> 1910.1003 4-Nitrobiphenyl, etc. | |
| <input type="checkbox"/> 1910.1004 alpha-Naphthylamine | <input type="checkbox"/> 1910.1005 [Reserved] | <input type="checkbox"/> 1910.1006 Methyl chloromethyl ether | |
| <input type="checkbox"/> 1910.1007 3,3'-Dichlorobenzidine (and salts) | <input type="checkbox"/> 1910.1008 bis-Chloromethyl ether | <input type="checkbox"/> 1910.1009 beta-Naphthylamine | |
| <input type="checkbox"/> 1910.1010 Benzidine | <input type="checkbox"/> 1910.1011 4-Aminodiphenyl | <input type="checkbox"/> 1910.1012 Ethyleneimine | |
| <input type="checkbox"/> 1910.1013 beta-Propiolactone | <input type="checkbox"/> 1910.1014 2-Acetylaminofluorene | <input type="checkbox"/> 1910.1015 4-Dimethylaminoazobenzene | |
| <input type="checkbox"/> 1910.1016 N-Nitrosodimethylamine | <input type="checkbox"/> 1910.1017 Vinyl chloride | <input type="checkbox"/> 1910.1018 Inorganic arsenic | |
| <input checked="" type="checkbox"/> 1910.1025 Lead (Att. FLD# 46) | <input type="checkbox"/> 1910.1027 Cadmium | <input type="checkbox"/> 1910.1028 Benzene | |
| <input type="checkbox"/> 1910.1029 Coke oven emissions | <input type="checkbox"/> 1910.1043 Cotton dust | <input type="checkbox"/> 1910.1044 1,2-Dibromo-3-chloropropane | |
| <input type="checkbox"/> 1910.1045 Acrylonitrile | <input type="checkbox"/> 1910.1047 Ethylene oxide | <input type="checkbox"/> 1910.1048 Formaldehyde | |
| <input type="checkbox"/> 1910.1050 Methylenedianiline | <input type="checkbox"/> 1910.1051 1,3 Butadiene | <input type="checkbox"/> 1910.1052 Methylene chloride | |
| IS SAMPLING TO BE CONDUCTED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | | |
| IS SAMPLING SUBSURFACE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO MA and NH require DIGSAFE notification for all subsurface activities including sediment sampling; CT, ME, RI, and VT require DIGSAFE/CALL-BEFORE-U-DIG (CBUD) notification for subsurface activities using power or mechanized equipment only. Pre-marking is required for CT, MA, ME, VT, and NH. | | | |
| IS DIGSAFE/CBUD NOTIFICATION REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO: For VT, NH, MA, ME, AND RI sites, call DIGSAFE at 1-888-344-7233 (1-888-DIG-SAFE), START ID no. 33168. For CT sites, call CBUD at 1-800-922-4455, START ID no. 03733. | | | |
| DIGSAFE/CBUD VERIFICATION NO: <u>20134103087 and 20134400597</u> | | | |
| REVISED DIGSAFE/CBUD VERIFICATION NO: <u>20134500531 (11/4/13)</u> | | | |
| <input checked="" type="checkbox"/> LOCAL WATER AND SEWER UTILITIES NOTIFIED | | | |
| Utility Contacted/Phone No. | Utility On Site? | Utility Emergency Phone No./Procedure/Notes | |
| Connecticut Light & Power (CL&P) | Electrical | (800) 286-2000 or (860) 947-2000 (24hrs/7 days per week) | |
| Yankee Gas Service Company | Gas | (800) 645-7839 | |
| Watertown Water & Sewer | Water & Sewer | (860) 945-5299 | |
| AT&T (SBC) | Telephone | (800) 274-1368 | |
| | | | |
| | | | |
| | | | |
| MA, ME, AND NH REQUIRE 72-HOUR NOTIFICATION; CT, RI, AND VT REQUIRE 48 HOUR NOTIFICATION (BOTH EXCLUDING WEEKENDS AND HOLIDAYS). DIGSAFE NOTIFICATION IS VALID FOR 30 DAYS. | | | |

HEALTH AND SAFETY EVALUATION - BIOLOGICAL HAZARDS OF CONCERN

☒ **Animals, Snakes, Reptiles, Insects, And Poisonous Plants**

Common To The New England Area

Source: ☐ Known ☒ Suspect
 Route of Exposure: ☐ Inhalation ☐ Ingestion
☒ Contact ☒ Direct Penetration

☐ **Other Biological Hazards (List):**

Source: ☐ Known ☐ Suspect
 Route of Exposure: ☐ Inhalation ☐ Ingestion
☐ Contact ☐ Direct

Penetration

☐ **Sewage** Task No(s):

Source: ☐ Known ☐ Suspect
 Route of Exposure: ☐ Inhalation ☐ Ingestion
☐ Contact ☐ Direct Penetration
 Tetanus Vaccination within Past 10 yrs: ☒ Yes ☐ No
 (see Note #1 below)

☐ **Etiologic Agents (List)** Task No(s):

Source: ☐ Known ☐ Suspect
 Route of Exposure: ☐ Inhalation ☐ Ingestion
☐ Contact ☐ Direct

Penetration

Note: A tetanus injection is recommended every 10 years for employees with "normal exposure risks." If employees have frequent potential for exposure at "higher risk," as working with raw sewage, then a frequency of 7 years is recommended.

HEALTH AND SAFETY EVALUATION — RADIATION HAZARDS OF CONCERN

NONIONIZING RADIATION

| Task # | Type of Nonionizing Radiation | Source On-site | TLV/PEL | Wavelength Range | Control Measures | Monitoring Instrument | NOTE: NONIONIZING RADIATION TYPES INCLUDE ULTRAVIOLET, INFRARED, RADIO FREQUENCY, MICROWAVE, AND LASER. |
|--------|-------------------------------|----------------|---------|------------------|------------------|-----------------------|---|
| | | | | | | | |

IONIZING RADIATION

| | | | | DAC (μCi/mL) | | | | |
|--------|--------------|------------------|-------------------------------|--------------|---|---|-----------------------------|-----------------------|
| Task # | Radionuclide | Major Radiations | Radioactive Half-Life (Years) | D | W | Y | Surface Contamination Limit | Monitoring Instrument |
| | | | | | | | | |

HEALTH AND SAFETY EVALUATION - Physical Hazards of Concern
Bolded Titles Are Commonly Relevant To START Operations

| Phy. Haz. Cond. | Physical Hazard | Attach OP | WESTON OP Titles |
|----------------------------|---|-------------------------------------|--|
| Loud Noise | Hearing loss/disruption of communication | <input type="checkbox"/> | Occupational Noise and Hearing Conservation - See Section 7 of the Corporate Environmental Compliance, Health, and Safety Program Manual |
| Inclement Weather | Rain/humidity/cold/ice/snow/lightning | <input checked="" type="checkbox"/> | FLD02 - Inclement Weather |
| Steam Heat Stress | Burns/displaced oxygen/wet working surfaces | <input type="checkbox"/> | FLD03 - Hot Process - Steam, Low Temperature Thermal Treatment Unit, Transportable Incinerator |
| Ambient Heat Stress | Heat rash/cramps/exhaustion/heat stroke | <input checked="" type="checkbox"/> | FLD05 - Heat Stress Prevention/Monitoring |
| Cold Stress | Hypothermia/frostbite | <input checked="" type="checkbox"/> | FLD06 - Cold Stress |
| Confined Spaces | Falls/burns/drowning/engulfment/electrocution | <input checked="" type="checkbox"/> | FLD08 - Confined Space Entry |
| Industrial Trucks | Fork Lift Truck Safety | <input type="checkbox"/> | FLD09 - Powered Industrial Trucks |
| Improper Lifting | Back strain/abdomen/arm/leg muscle/joint injury | <input checked="" type="checkbox"/> | FLD10 - Manual Lifting/Handling Heavy Objects |
| Uneven Surfaces | Vehicle accidents/slips/trips/falls | <input type="checkbox"/> | FLD11 - Rough Terrain and/or ATV Use |
| Poor Housekeeping | Slips/trips/falls/punctures/cuts/fires | <input checked="" type="checkbox"/> | FLD12 - Housekeeping |
| Structural Integrity | Crushing/overhead hazards/compromised floors | <input type="checkbox"/> | FLD13 - Structural Integrity |
| Hostile Persons | Bodily injury | <input checked="" type="checkbox"/> | FLD14 - Site Security/Violence Free Workplace |
| Improper Cylinder Handling | Mechanical injury/fire/explosion/suffocation | <input type="checkbox"/> | FLD16 - Pressure Systems - Compressed Gases |
| Water Hazards | Poor visibility/entanglement/drowning/cold stress | <input type="checkbox"/> | FLD17 - Diving |
| Water Hazards | Drowning/heat/cold stress/hypothermia/falls | <input type="checkbox"/> | FLD18 - Operation and Use of Boats |
| Water Hazards | Drowning/frostbite/hypothermia/falls/electrocution | <input type="checkbox"/> | FLD19 - Working Over Water |
| Vehicle Hazards | Struck by vehicle/collision | <input checked="" type="checkbox"/> | FLD20 - Traffic |
| Explosions | Explosion/fire/thermal burns | <input type="checkbox"/> | FLD21 - Explosives |
| Moving Mechanical Parts | Crushing/pinch points/overhead hazards/electrocution | <input type="checkbox"/> | FLD22 - Earth Moving Equipment/Material Handling Equipment |
| Moving Mechanical Parts | Overhead hazards/electrocution | <input type="checkbox"/> | FLD23 - Cranes/Rigging/Slings |
| Working At Elevation | Overhead hazards/falls/electrocution | <input type="checkbox"/> | FLD24 - Aerial Lifts/Man Lifts |
| Working At Elevation | Overhead hazards/falls/electrocution | <input type="checkbox"/> | FLD25 - Working at Elevation/Fall Protection |
| Working At Elevation | Overhead hazards/falls/electrocution/slips | <input type="checkbox"/> | FLD26 - Ladders |
| Working at elevation | Slips/trips/falls/overhead hazards | <input type="checkbox"/> | FLD27 - Scaffolding |
| Trench Cave-In | Crushing/falling/overhead hazards/suffocation | <input type="checkbox"/> | FLD28 - Excavating/Trenching |
| Physiochemical | Explosions/fires from oxidizing, flam./corr. material | <input checked="" type="checkbox"/> | FLD30 - Hazardous Materials Use/Storage |
| Physiochemical | Fire and explosion | <input type="checkbox"/> | FLD31 - Fire Prevention/ |
| Physiochemical | Fire | <input checked="" type="checkbox"/> | FLD32 - Fire Extinguishers Required and Requirements |
| Structural Integrity | Overhead/electrocution/slips/trips/falls/fire | <input type="checkbox"/> | FLD33 - Demolition |
| Electrical | Electrocution/shock/thermal burns | <input checked="" type="checkbox"/> | FLD34 - Utilities |
| Electrical | Electrocution/shock/thermal burns | <input type="checkbox"/> | FLD35 - Electrical Safety |
| Burns/Fires | Heat stress/fires/burns | <input type="checkbox"/> | FLD36 - Welding/Cutting/Brazing/Radiography |
| Impact/Thermal | Thermal burns/high pressure impaction/heat stress | <input type="checkbox"/> | FLD37 - Pressure Washers/Sandblasting |
| Impaction/Electrical | Smashing body parts/pinching/cuts/electrocution | <input checked="" type="checkbox"/> | FLD38 - Hand and Power Tools |
| Poor Visibility | Slips/trips/falls | <input type="checkbox"/> | FLD39 - Illumination |
| Fire/Explosion | Burns/impaction | <input type="checkbox"/> | FLD40 - Storage Tank Removal/Decommissioning |
| Communications | Disruption of communications | <input checked="" type="checkbox"/> | FLD41 - Hand and Emergency Signals/Radio Communication |
| Energy/Release | Unexpected release of energy | <input type="checkbox"/> | FLD42 - Lockout/Tag-out |

| | | | |
|----------------------------|---|-------------------------------------|---|
| Biological Hazards | Biological Hazards at site | <input checked="" type="checkbox"/> | FLD43 - Biological Hazards FLD 43A - Animals FLD 43B - Stinging and Biting Insects FLD 43C - Molds and Fungi FLD 43D - Hazardous Plants FLD 43E - Etiologic Agents |
| Biological Hazards/BBP | Biological Hazards/BBP at site/First Aid Providers | <input checked="" type="checkbox"/> | FLD44 - Bloodborne Pathogens Exposure Control Plan – First Aid Providers |
| Infectious Waste | Infectious Waste at site/BBP/ at site/Infectious Waste | <input type="checkbox"/> | FLD45 – Bloodborne Pathogens Exposure Control Plan – Work With Infectious Waste |
| Lead Contaminated Sites | Lead poisoning | <input checked="" type="checkbox"/> | FLD46 - Control of Exposure to Lead |
| Puncture/Cuts | Cuts/ dismemberment/gouges | <input checked="" type="checkbox"/> | FLD47 - Clearing, Grubbing and Logging Operations |
| Not Applicable | Not applicable | <input checked="" type="checkbox"/> | FLD48 – Federal, State, Local Regulatory Agency Inspections |
| Not Applicable | Exposure to hazardous materials/waste | <input checked="" type="checkbox"/> | FLD49 – Safe Storage of Samples |
| Cadmium | Exposure Control | <input type="checkbox"/> | FLD50 – Cadmium Exposure Control Plan |
| Process Safety Procedure | Safety Procedure | <input type="checkbox"/> | FLD51 – Process Safety Procedure |
| Asbestos | Asbestos Exposure | <input type="checkbox"/> | FLD52 – Asbestos Exposure Control Plan |
| Hexavalent Chromium | Exposure Control Plan | <input type="checkbox"/> | FLD53 – Hexavalent Chromium Exposure Control Plan |
| Benzene | Exposure Control Plan | <input type="checkbox"/> | FLD54 - Benzene Exposure Control Plan |
| Hydrofluoric Acid | Exposure control Plan | <input type="checkbox"/> | FLD55 – Working with Hydrofluoric Acid |
| Moving Mechanical Parts | Crushing/pinch points/overhead hazards/electrocution | <input type="checkbox"/> | FLD56 – Environmental Remediation Drilling Safety Guideline - 2005 |
| Vehicles/Driving | Accidents,/fatigue/cell phone use | <input checked="" type="checkbox"/> | FLD 57 – Motor Vehicle Safety |
| Improper Material Handling | Back injury/crushing from load shifts/equipment/tools | <input type="checkbox"/> | FLD 58 – Drum Handling Operations |
| COC Decontamination | COCs/slip,trip, and falls/waste generation/environmental compliance/PPE | <input checked="" type="checkbox"/> | FLD59 - Decontamination |
| Fatigue From long Hours | Employee Fatigue | <input type="checkbox"/> | FLD60 - Employee Duty Schedule/Basic fatigue Management Plan |
| Gasoline | Exposure Control Plan | <input type="checkbox"/> | FLD61 - Gasoline Contaminant Exposure |

Note there is no FLD01, FLD04, FLD07, FLD15, or FLD29

| TASK-BY-TASK RISK ASSESSMENT (Complete One Sheet for Each Task) | |
|---|--|
| TASK DESCRIPTION | |
| Task 01: Conduct Site Reconnaissance (Completed). | |
| EQUIPMENT REQUIRED/USED (Be specific, e.g., hand tools, heavy equipment, instruments, PPE) | |
| PPE: Level D Air Monitoring: PID, CGI/O2, rad meter Equipment: fire extinguisher, first aid kit, camera, logbook. | |
| POTENTIAL HAZARDS/RISKS | |
| CHEMICAL | |
| <input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? The building contains an automotive parts manufacturing business. The business is operating on the property as a tenant. Elevated levels of Total Petroleum Hydrocarbons (TPH) have been detected in on-site soils and groundwater although areas outside the site are assumed to have lower levels of contamination. Awareness of potential on-site chemicals and their properties, appropriate use of PPE and air monitoring, attention to surroundings, and use of the "Buddy System" will reduce the risk of exposure. | |
| PHYSICAL | |
| <input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Physical hazards include slip/trip/fall hazards from uneven terrain, debris, and vegetation. Work may be done in close proximity to roadways, and high-visibility vests should be worn. Awareness of potential hazards, use of the "Buddy System", and careful observation of surroundings will minimize risks. Proper nutrition and hydration are important factors for maintaining physical strength and mental awareness during field work regardless of the season or site conditions. | |
| BIOLOGICAL | |
| <input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Biological hazards common to the New England area may be encountered. Risks will be minimized by awareness, avoidance of potential hazards, and use of appropriate work clothes/PPE. | |
| RADIOLOGICAL | |
| <input checked="" type="checkbox"/> Hazard Present Risk Level: <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L What Justifies Risk Level? Site background does not indicate that radiation sources are present. | |
| LEVELS OF PROTECTION/JUSTIFICATION | |
| Level D required for all on-site activities. | |
| All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures: See pages 7 – 8. | |

TASK-BY-TASK RISK ASSESSMENT
(Complete One Sheet for Each Task)

TASK DESCRIPTION

Task 02: Conduct brush clearing.

EQUIPMENT REQUIRED/USED
(Be specific, e.g., hand tools, heavy equipment, instruments, PPE)

PPE: Level D
Air Monitoring: PID, CGI/O2, rad meter
Equipment: first aid kit (and Technu), camera, logbook, machete, brush axe, loppers

POTENTIAL HAZARDS/RISKS

CHEMICAL

☒ **Hazard Present Risk Level:** ☐ H ☐ M ☒ L

What Justifies Risk Level? The building contains an automotive parts manufacturing business. The business is operating on the property as a tenant. Elevated levels of Total Petroleum Hydrocarbons (TPH) have been detected in on-site soils and groundwater although areas outside the site are assumed to have lower levels of contamination. Awareness of potential on-site chemicals and their properties, appropriate use of PPE and air monitoring, attention to surroundings, and use of the "Buddy System" will reduce the risk of exposure.

PHYSICAL

☒ **Hazard Present Risk Level:** ☐ H ☐ M ☒ L

What Justifies Risk Level? Physical hazards include slip/trip/fall hazards from uneven terrain, debris, and vegetation. Work may be done in close proximity to roadways, and high-visibility vests should be worn. Caution will be used when using any edged tools during vegetation clearing. Awareness of potential hazards, use of the "Buddy System", and careful observation of surroundings will minimize risks. Proper nutrition and hydration are important factors for maintaining physical strength and mental awareness during field work regardless of the season or site conditions.

BIOLOGICAL

☒ **Hazard Present Risk Level:** ☐ H ☒ M ☐ L

What Justifies Risk Level? Biological hazards common to the New England area may be encountered, but should be minimal given season and site location. Risks will be minimized by awareness, avoidance of potential hazards, and use of appropriate work clothes/PPE. Special awareness will cautioned to avoid contact with poisonous plants (ivy, sumac, and oak) during brush clearing activities.

RADIOLOGICAL

☒ **Hazard Present Risk Level:** ☐ H ☐ M ☒ L

What Justifies Risk Level? Site background does not indicate that radiation sources are present.

LEVELS OF PROTECTION/JUSTIFICATION

Level D required for all on-site activities. If brush clearing is conducted in heavily vegetated areas, Tyvek and/or ivy block or Technu will be used.

All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures: See pages 7-8.

TASK-BY-TASK RISK ASSESSMENT
(Complete One Sheet for Each Task)

TASK DESCRIPTION

Task 03: Collect surface and subsurface soil samples using hand augers and a pneumatic hammer (inside the facility), and classify soil and collect soil samples.

EQUIPMENT REQUIRED/USED

(Be specific, e.g., hand tools, heavy equipment, instruments, PPE)

PPE: Modified Level C

Air Monitoring: PID, CGI/O2

Equipment: fire extinguisher, first aid kit, camera, logbook, pneumatic hammer, generator, and related equipment; scoops, bowls, sample containers, plastic bags, paper towels, decontamination equipment and supplies, and coolers.

POTENTIAL HAZARDS/RISKS

CHEMICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What Justifies Risk Level? The building contains an automotive parts manufacturing business. The business is operating on the property as a tenant. Elevated levels of Total Petroleum Hydrocarbons (TPH) have been detected in site soils and groundwater although areas outside the site are assumed to have lower levels of contamination. Ambient air readings for VOCs inside the machine shop and adjacent room to the north ranged from 27 - 107 ppm. Awareness of potential on-site chemicals and their properties, appropriate use of PPE and air monitoring, attention to surroundings, and use of the "Buddy System" will reduce the risk of exposure.

PHYSICAL

☒ Hazard Present Risk Level: ☐ H ☒ M ☐ L

What Justifies Risk Level? Physical hazards include slip/trip/fall hazards. Additional hazards include strains associated with hand augering. Proper lifting techniques will be used when moving and operating the coring machine and pneumatic hammer, and generator. Caution will be exercised when filling up the generator with gasoline (waiting until the generator has cooled down sufficiently). Awareness of potential hazards, use of proper PPE and the Buddy System, and careful observation of surroundings will minimize risks. Proper nutrition and hydration are important factors for maintaining physical strength and mental awareness during field work regardless of the season or site conditions.

BIOLOGICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What Justifies Risk Level? No biological hazards are anticipated while working inside of the building. Risks will be minimized by awareness, avoidance of potential hazards, and use of appropriate work clothes/PPE.

RADIOLOGICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What Justifies Risk Level? Site background and previous monitoring does not indicate that radiation sources are present.

LEVELS OF PROTECTION/JUSTIFICATION

Modified Level C is required for all indoor subsurface soil sampling activities to minimize inhalation and contact with contaminated soils.

All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures: See pages 7 – 8.

TASK-BY-TASK RISK ASSESSMENT
(Complete One Sheet for Each Task)

TASK DESCRIPTION

Task 04: Collect surface and subsurface soil samples using a Geoprobe and pneumatic hammer (outside of buildings), and classify soil and collect soil samples.

EQUIPMENT REQUIRED/USED

(Be specific, e.g., hand tools, heavy equipment, instruments, PPE)

PPE: Modified Level D

Air Monitoring: PID, CGI/O2

Equipment: fire extinguisher, first aid kit, camera, logbook, pneumatic hammer, generator, and related equipment; scoops, bowls, sample containers, plastic bags, paper towels, decontamination equipment and supplies, and coolers.

POTENTIAL HAZARDS/RISKS

CHEMICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What Justifies Risk Level? The building contains an automotive parts manufacturing business. The business is operating on the property as a tenant. Elevated levels of Total Petroleum Hydrocarbons (TPH) have been detected in site soils and groundwater although areas outside the site are assumed to have lower levels of contamination. Oil sheens have been observed in several areas of Turkey Brook. Awareness of potential on-site chemicals and their properties, appropriate use of PPE and air monitoring, attention to surroundings, and use of the "Buddy System" will reduce the risk of exposure.

PHYSICAL

☒ Hazard Present Risk Level: ☐ H ☒ M ☐ L

What Justifies Risk Level? Physical hazards include slip/trip/fall hazards from uneven terrain, debris, and vegetation. Additional hazards include strains associated with operating the Geoprobe and pneumatic hammer. Proper lifting techniques will be used when moving and operating the pneumatic hammer, and generator. Caution will be exercised when filling up the generator with gasoline (waiting until the generator has cooled down sufficiently). Work may be done in close proximity to roadways, and high-visibility vests should be worn. Awareness of potential hazards, use of proper PPE and the Buddy System, and careful observation of surroundings will minimize risks. Proper nutrition and hydration are important factors for maintaining physical strength and mental awareness during field work regardless of the season or site conditions.

BIOLOGICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What Justifies Risk Level? Biological hazards common to the New England area may be encountered. Risks will be minimized by awareness, avoidance of potential hazards, and use of appropriate work clothes/PPE.

RADIOLOGICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What Justifies Risk Level? Site background and previous monitoring does not indicate that radiation sources are present.

LEVELS OF PROTECTION/JUSTIFICATION

Modified Level D is required for all subsurface soil sampling activities to minimize contact with contaminated soils.

All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures: See pages 7 – 8.

PERSONNEL PROTECTION PLAN

Engineering Controls

Describe Engineering Controls used as part of Personnel Protection Plan:

Administrative Controls

Describe Administrative controls used as part of Personnel Protection Plan:

All Tasks: Appropriate Work Zone Delineation. All Field Personnel: 40-Hour OSHA Health and Safety (H&S) Training, 8-Hour OSHA H&S Refresher Training (As Needed), Medical Monitoring Clearance. FSO: 8-Hour FSO training, First Aid,

Personal Protective Equipment

List Initial PPE Level For Each Task:

Task 01: Level D PPE - See Page 13 for Action Levels.

Task 02: Modified Level D PPE - See Page 13 for Action Levels.

Task 03: Modified Level D PPE - See Page 13 for Action Levels.

Description of Levels of Protection

| Level D | Level D Modified | Level C | Level B |
|--|---|---|---|
| Task(s): 01 and 02 <input checked="" type="checkbox"/> Head - Hard Hat (as appropriate) <input checked="" type="checkbox"/> Eye (Safety Glasses as appropriate) <input type="checkbox"/> Hearing - Ear Plugs <input checked="" type="checkbox"/> Appropriate Uniform <input checked="" type="checkbox"/> Hand - Gloves - surgical <input checked="" type="checkbox"/> Foot - Safety Boots <input checked="" type="checkbox"/> Foot - Over boots | Task(s): 03 <input checked="" type="checkbox"/> Head - Hard Hat (task 03) <input checked="" type="checkbox"/> Eye (Safety Glasses) <input checked="" type="checkbox"/> Hearing - Ear Plugs task 03) <input checked="" type="checkbox"/> Appropriate Uniform <input checked="" type="checkbox"/> Coverall (Tyvek) <input checked="" type="checkbox"/> Hand - Gloves (inner - surgical) <input type="checkbox"/> Hand - Gloves <input checked="" type="checkbox"/> Hand - Gloves (outer - surgical) <input checked="" type="checkbox"/> Foot - Safety Boots <input checked="" type="checkbox"/> Foot - Over boots <input type="checkbox"/> Other (specify) | Task(s): <input checked="" type="checkbox"/> Head - Hard Hat <input type="checkbox"/> Face (Splash Shield) <input checked="" type="checkbox"/> Hearing - Ear Plugs <input type="checkbox"/> Appropriate Uniform <input checked="" type="checkbox"/> Coverall (Tyvek) <input checked="" type="checkbox"/> Hand - Gloves (inner - surgical) <input type="checkbox"/> Hand - Gloves (middle) <input checked="" type="checkbox"/> Hand - Gloves (outer - cotton or nitrile) <input checked="" type="checkbox"/> Foot - Safety Boots <input checked="" type="checkbox"/> Foot - Over boots <input type="checkbox"/> Respirator (Full Face APR) <input type="checkbox"/> Cartridge (OV/HEPA) <input checked="" type="checkbox"/> Other (P-100) | Task(s): <input type="checkbox"/> Head - Hard Hat <input type="checkbox"/> Face (Splash Shield) <input type="checkbox"/> Hearing - Ear Plugs <input type="checkbox"/> Appropriate Uniform <input type="checkbox"/> Coverall (Saranex) <input type="checkbox"/> Hand - Gloves (inner - surgical) <input type="checkbox"/> Hand - Gloves (middle) <input type="checkbox"/> Hand - Gloves (outer - nitrile) <input type="checkbox"/> Foot - Safety Boots <input type="checkbox"/> Foot - Over boots <input type="checkbox"/> SCBA <input type="checkbox"/> Other (specify) |

SITE OR PROJECT HAZARD MONITORING PROGRAM

Direct Reading Air Monitoring Instruments

Instrument Selection and Initial Check Record

Reporting Format: ☒ Field Logbook ☒ Field Data Sheets ☐ Air Monitoring Log ☐ Trip Report ☐ Other

| Instrument | Task No.(s) | Instrument Number | Comment | Initials |
|--|-------------|-------------------|---------|----------|
| <input checked="" type="checkbox"/> CGI/O ₂ | 01/03/04 | | | |
| <input type="checkbox"/> CGI/O ₂ /H ₂ S/CO | | | | |
| <input checked="" type="checkbox"/> RAD | | | | |
| <input checked="" type="checkbox"/> Micro-R | 01 | | | |
| <input type="checkbox"/> GM | | | | |
| <input type="checkbox"/> Other | | | | |
| <input checked="" type="checkbox"/> PID | 01/03/04 | | | |
| <input type="checkbox"/> FID | | | | |
| <input type="checkbox"/> RAM, Mini-RAM, Other | | | | |
| <input type="checkbox"/> Mercury Vapor Analyzer | | | | |
| <input type="checkbox"/> Single Gas | | | | |
| <input type="checkbox"/> H ₂ S | | | | |
| <input type="checkbox"/> CL ₂ | | | | |
| <input type="checkbox"/> HCN | | | | |
| <input type="checkbox"/> Other | | | | |
| <input type="checkbox"/> Pump – Drager | | | | |
| <input type="checkbox"/> Tubes/type: | | | | |
| <input type="checkbox"/> Tubes/type: | | | | |
| <input type="checkbox"/> Other | | | | |
| <input type="checkbox"/> Chlorine Meter | | | | |
| <input type="checkbox"/> Ammonia Meter | | | | |
| <input type="checkbox"/> Personal/Area Sampling | | | | |
| <input type="checkbox"/> Asbestos | | | | |
| <input type="checkbox"/> Lead | | | | |
| <input type="checkbox"/> Other | | | | |
| <input type="checkbox"/> Other (List) | | | | |

| SITE AIR MONITORING PROGRAM | | | |
|--|-------|---|---|
| Action Levels | | | |
| These Action Levels, if not defined by regulation, are some percent (usually 50%) of the applicable PEL/REL/TLV. That number must also be adjusted to account for instrument response factors. | | | |
| | Tasks | Action Level Ambient Concentration | Action |
| <input checked="" type="checkbox"/> Explosive atmosphere | 01-04 | <10% LEL 10 to 25% LEL >25% LEL | Work may continue. Consider toxicity potential. Work may continue. Increase monitoring frequency. Work must stop. Ventilate area before returning. |
| <input checked="" type="checkbox"/> Oxygen | 01-04 | <19.5% O ₂ 19.5% to 25% O ₂ >25% O ₂ | Leave Area. Re-enter only with self-contained breathing apparatus. Work may continue. Investigate changes from 21%. Work must stop. Ventilate area before returning. |
| <input checked="" type="checkbox"/> Radiation | 0-1 | < 3 times background 3 Times Background to < 1 mR/hour > 1 mR/hour | Continue Work. Possible radiation source(s) present (normal background is 0.01-0.02 mR/hr). Continue investigation with caution. Perform thorough monitoring. Consult with a Health Physicist. Potential radiation hazard. Continue investigation only upon the advice of Health Physicist. |
| <input checked="" type="checkbox"/> Unknown Organic Gases/Vapors | 01-04 | < 1 unit above background 1 to 5 units above background > 5 to 500 units above background > 500 units above background | Level D, continue air monitoring. Level C, continue air monitoring. Level B, continue air monitoring. Evacuate affected area. |
| <input checked="" type="checkbox"/> Specific Organics/Inorganics | | | |

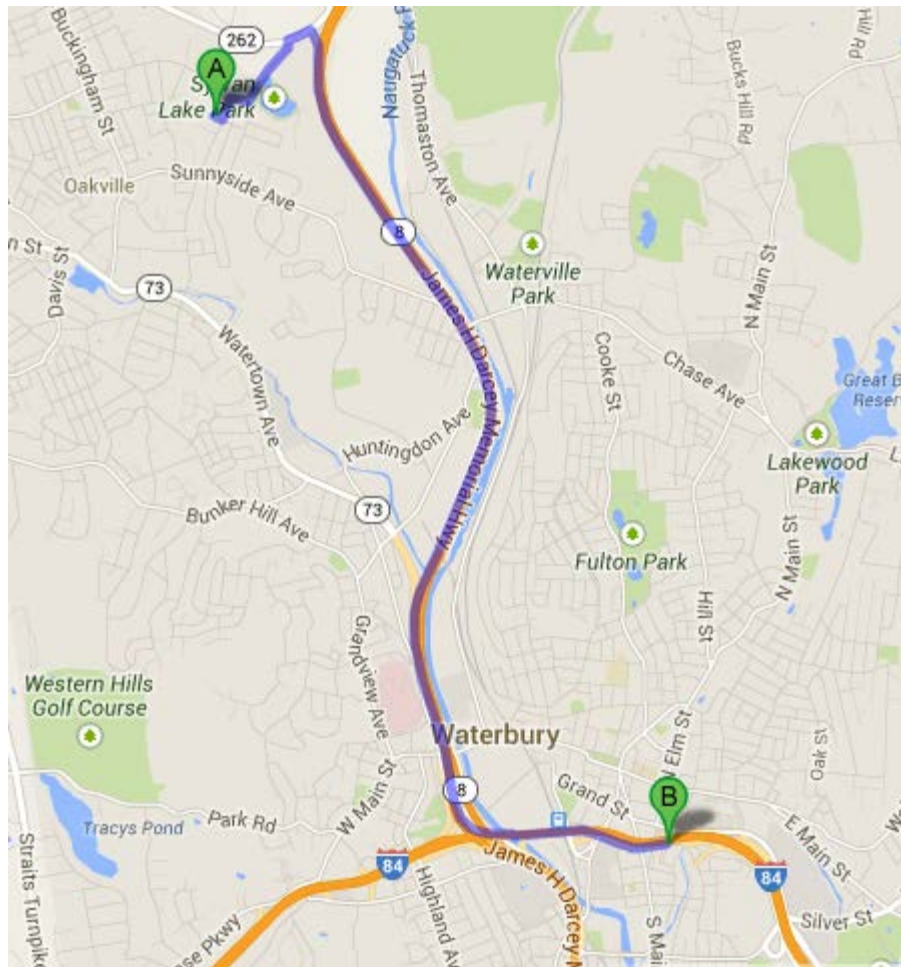
Note: Action levels listed above do not include confined space entry work.

| AIR MONITORING/SAMPLING SUMMARY LOG | | | | | | | | |
|--|-------|------------------|-------------|-------------|--------------------------------------|---------------------------|----------------------|-------|
| Work Location Instrument Readings | | | | | | | | |
| Location: | % LEL | % O ₂ | PID (units) | FID (units) | Aerosol Monitor (mg/m ³) | Radiation Meter (uR/Hour) | Detector Tubes (PPM) | Other |
| Inside Quality Automatics, Inc. Building | 0 | 20.9 | 27 - 107 | NA | NA | 8 | NA | NA |
| Perimeter of Quality Automatics, Inc. Building Outside | 0 | 20.9 | 0 | NA | NA | 8 | NA | NA |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| CONTINGENCIES | | |
|---|---|--|
| Emergency Contacts and Phone Numbers | | |
| Agency | Contact | Phone Number |
| Local Medical Emergency Facility (LMF) | St. Mary's Hospital | 203-709-6000 |
| WESTON Medical Emergency Contact | Dr. Peter Greaney WorkCare 300 S. Harbor Blvd, Ste 600 Anaheim, CA 92805 | 0600 to 1630 hours Pacific Time, M-F: Call 800-455-6155, dial 0 or extension 175. 1631 to 0559 hours Pacific Time, and all day Saturday, Sunday and Holidays: call 800-455-6155, Dial 3 |
| WESTON Health and Safety | William Irwin | 610-701-3684 267-918-8371 (cell) |
| Fire Department | Watertown Fire Department | 860-945-5224 or 911 |
| Police Department | Watertown Police Department | 860-945-5200 or 911 |
| Weston/START Site Leader | Colin Cardin | Office: 978-552-2115 Cell: 978-621-1202 |
| EPA Site Coordinator | Mia Pasquerella | Office: 617-918-1120 Cell: 617-312-4718 |
| OSHA Hotline | | 1-800-321-6742 |
| Chem-Tel | | 1-800-255-3924 |
| ATSDR | | 1-404- 639-0615 |
| ATF (explosives information) | | 1-800-800-3855 |
| Chemtrec | | 1-800-424-9300 |
| Poison Control Center | | 1-800-222-1222 |
| National Response Center | | 1-800-424-8802 |
| START Health and Safety Phone | Paul Callahan | 1-978- 621-1203 |
| Local Medical Emergency Facility(s) | | |
| Name of Hospital: St Mary's Hospital | | |
| Address: 56 Franklin St. Waterbury, CT 06706 | | Phone No.: 203-709-6000 |
| Type of Service: <input type="checkbox"/> Physical trauma only <input type="checkbox"/> Chemical exposure only <input checked="" type="checkbox"/> Physical trauma and chemical exposure <input checked="" type="checkbox"/> Available 24 hours | Route to Hospital (written detail): See attached | |
| | | Travel time from site: approx. 9 minutes; Distance to hospital: approx. 5.4 miles. Name/No. of 24-hr Ambulance Service: 911 |

Figure 2 - Route to Hospital (Map)

1. Head east on McLennan Drive toward Falls Ave
2. Take the 1st left onto Falls Ave
3. Turn right onto Sylvan Lake Rd
4. Take the 1st left onto Frost Bridge Rd
5. Turn right onto CT-262/Frost Bridge Rd
6. Turn right to merge onto CT-8 S toward Waterbury
7. Take exit 31 on the left to merge onto I-84 E toward Hartford
8. Take exit 22 toward Baldwin St/Downtown/Waterbury
9. Merge onto McMahan St (Destination will be on the left)



CONTINGENCY

Response Plans

Medical – General

Provide First Aid as trained, assess and determine need for further medical assistance.

Transport or arrange for transport after decontamination.

| | | | |
|--|--|---|--|
| First Aid Kit required: <input checked="" type="checkbox"/> Yes | Type - Standard field including bloodborne pathogen kit | Location - START vehicle | Special First Aid Procedures: Cyanides on site <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, contact LMF. Do they have antidote kit? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Eyewash required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Type - Standard Gravity-Fed | Location - START vehicle | Hydrogen Fluoride on site <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. If yes, need neutralizing ointment for First Aid kit. Contact LMF. |
| Spills: In the event of a spill or release, ensure safety, assess situation and perform containment and control measures as appropriate: | a. If small spill, clean up per MSDS; Notify Emergency Coordinator. b. If large spill, Sound Alarm; Notify Emergency Coordinator. c. Evacuate to pre-determined safe place. d. Account for all personnel. e. Determine if Team can respond safely. | Spill Response Equipment (Type) None | Location |
| Fire/Explosion: In the event of a fire or explosion, ensure personal safety, assess situation and perform containment and control measures as appropriate: | a. Sound Alarm and call assistance, Notify Emergency Coordinator b. Evacuate to predetermined safe place c. Account for personnel d. Use fire extinguisher, <u>only if</u> <u>safe and trained</u> e. Standby to inform Emergency responders of materials and conditions | Fire Extinguisher (Type): 10/20 lb ABC | Location - START vehicle |

Security Problems: Site is in a suburban area; however, personnel should ensure that all equipment is either kept in locked vehicles or is under personal control at all times. Any security concerns should be relayed to local law enforcement. Contact local police at 860-945-5200 or 911 if necessary.

DECONTAMINATION PLAN

Levels of Protection Required for Decontamination Personnel

The levels of protection required for personnel assisting with decontamination will be:

☐ Level B

☐ Level C

☒ Modified Level D

Modifications include:

PPE and Monitoring Equipment Decontamination

Decontamination procedure required for site personnel:

- ☒ Dry decon
- ☒ Wet decon (If Needed)
 - ☒ Wash boots and gloves
 - ☒ Remove outer boots
 - ☒ Remove outer gloves
 - ☒ Remove chemical coverall
 - ☒ Remove respiratory protection
 - ☒ Remove inner gloves

Sampling Equipment Decontamination

Sampling equipment will be decontaminated in accordance with the following procedure:

- ☒ Wash with soap and water
- ☒ Rinse with tap water
- ☒ Rinse with isopropyl alcohol
- ☐ Rinse with hexane
- ☐ Rinse with methanol
- ☒ Rinse with DI water
- ☒ Air dry

Disposition of Investigation-Derived Wastes

Provide a description of waste disposition including identification of storage area, hauler, and final disposal site, if applicable: PPE will be decontaminated on site as needed, double-bagged, and returned to the Andover, MA START office for disposal in accordance with the START Region I field-generated waste SOP. Soil cuttings and soap/water decontamination fluids will be disposed of on site in accordance with the access agreement.

SITE PERSONNEL

WESTON

Name: Eric Ackerman
Title: Project Leader/Environmental Compliance Officer
Task(s): 03/04

☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

Name: Colin Cardin
Title: Field Safety Officer
Task(s): 03/04

☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

Name: George Mavris
Title: Geologist/Site Leader
Task(s): 01 - 04

☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

Name: Ken Robinson
Title: Sampler
Task(s): 03/04

☒ Medical Current ☒ Training Current
☐ Fit Test Current (Qual.) ☒ Fit Test Current (Quant.)

TRAINING CURRENT: All personnel, including visitors, entering the exclusion or contamination reduction zones must have current certifications of completion of training in accordance with 29 CFR 1910.120.

FIT TEST CURRENT: All persons, including visitors, entering any area requiring the use or potential use of any negative pressure respirator must have had, as a minimum, a qualitative fit test, administered in accordance with OSHA 29 CFR 1910.134 or ANSI, within the last 12 months. If site conditions require the use of a full-face, negative-pressure, air-purifying respirator for protection from asbestos or lead, employees must have had a qualitative fit test, administered according to OSHA 29 CFR 1910.1001 or 1025/1926, within the last 6 months.

MEDICAL CURRENT - Medical Monitoring Requirements: All personnel, including visitors, entering the exclusion or contamination reduction zones must be certified as medically fit to work, and to wear a respirator (if appropriate), in accordance with 29 CFR 1910.120 and 29 CFR 1910.134.

The Site Field Safety Officer is responsible for verifying all certifications and fit tests.

SITE SPECIFIC HEALTH AND SAFETY PERSONNEL

The Field Safety Officer (FSO) for activities to be conducted at this site is: Colin Cardin

The FSO has total responsibility for ensuring that the provisions of this Site HASP are adequate and implemented in the field.

Changing field conditions may require decisions to be made concerning adequate protection programs. Therefore, the personnel assigned as FSOs are experienced and meet the additional training requirements specified by OSHA in 29 CFR 1910.120

Qualifications:

☒ 40 Hour OSHA Training ☒ 8 Hour Refresher Training
☒ 8 Hour Site Safety Supervisor Training ☒ First Aid, Bloodborne pathogens, and Adult CPR Training
☒ Extensive field experience ☐ Non-rescue Confined Space Training

HEALTH AND SAFETY PLAN APPROVAL/SIGNOFF FORM

| |
|-------------------------|
| Site Name: Turkey Brook |
|-------------------------|

| |
|---|
| Address: 20 McLennan Drive, Watertown, CT |
|---|

I understand, agree to and will conform with the information set forth in this Health and Safety Plan (and attachments) and discussed in the Personnel Health and Safety briefing(s).

[illegible]

**ON-SITE TAILGATE SAFETY MEETING ATTENDANCE LIST
(TO BE CONDUCTED DAILY)**

DATE: **TOPICS COVERED:** PPE Levels, Air Monitoring Action Levels, Chemical Hazards, Physical Hazards, Tasks To Be Conducted, Weather Hazards, Other Topics Including:

Name

Signature

ATTACHMENT "A"

CHEMICAL CONTAMINANTS

DATA SHEETS

(Attach appropriate data sheets.)

ATTACHMENT "B"

MATERIAL SAFETY DATA SHEETS

(MSDS)

ATTACHMENT "C"

SAFETY PROCEDURES/FIELD OPS

(FLDOP'S)

See Accompanying Field OP Binder

ATTACHMENT "D"

SITE SPECIFIC HAZARD COMMUNICATION PROGRAM

In order to ensure an understanding of and compliance with the Hazard Communication Standard, WESTON will utilize this checklist/document (or similar document) in conjunction with the WESTON Written Hazard Communications Program as a means of meeting site or location specific requirements.

To ensure that information about the dangers of all hazardous chemicals used by WESTON are known by all affected employees, the following hazardous information program has been established. All affected personnel will participate in the hazard communication program. This written program as well as WESTON's Corporate Hazard Communication Program will be available for review by any employee, employee representative, representative of OSHA, NIOSH or any affected employer/employee on a multi-employer site.

____ Tailgate Safety Meeting conducted by (name and date):_____

A list of known hazardous chemicals used by WESTON personnel must be prepared and attached to this document. Further information on each chemical may be obtained by reviewing the appropriate MSDS's. The list will be arranged to enable cross reference with the MSDS file and the label on the container. The SO or location manager is responsible for ensuring the chemical listing remains up-to-date.

The WESTON Safety Officer (SO) will verify that all containers received from the chemical manufacturer, importer or distributor for use on site will be clearly labeled.

Material Safety Data Sheets (MSDS)

The SO is responsible for establishing and monitoring WESTON's MSDS program for the location. The SO will make sure procedures are developed to obtain the necessary MSDS's and will review incoming MSDS's for new or significant health and safety information. He/she will see that any new information is passed on to the affected employees. If an MSDS is not received at the time of initial shipment, the SO will call the manufacturer and have a MSDS delivered for that product in accordance with the requirements of WESTON's Written Hazard Communication Program.

A log for, and copies of, MSDS's for all hazardous chemicals in use will be kept in the MSDS folder at a location known to all site workers. MSDS's will be readily available to all employees during each work shift. If an MSDS is not available, immediately contact the WESTON SO or designated alternate. When revised MSDS's are received the SO will immediately replace the old MSDS's.

The SO is responsible for the WESTON site-specific personnel training program. The SO will ensure that all program elements specified below are supplied to all affected employees.

At the time of initial assignment for employees to the work site or whenever a new hazard is introduced into the work area employees will attend a health and safety meeting or briefing that includes the information indicated below.

- Hazardous chemicals present at the worksite

- Physical and health risks of the hazardous chemicals
- The signs and symptoms of overexposure
- Procedures to follow if employees are overexposed to hazardous chemicals
- Location of the MSDS file and written hazard communication program
- How to determine the presence or release of hazardous chemicals in the employees work area
- How to read labels and review MSDS's to obtain hazard information
- Steps WESTON has taken to reduce or prevent exposure to hazardous chemicals
- How to reduce or prevent exposure to hazardous chemicals through use of controls procedures, work practices and personal protective equipment
- Hazardous, non-routine tasks to be performed (if any)
- Chemicals within unlabeled piping (if any)

Hazardous Non-Routine Tasks

When employees are required to perform hazardous non-routine tasks the affected employee(s) will be given information by the SO about the hazardous chemicals he or she may utilize during such activity. This information will include specific chemical hazards, protective and safety measures the employee can use and steps WESTON is using to reduce the hazards. These steps include, but are not limited to, ventilation, respirators, presence of another employee and emergency procedures.

Chemicals in Unlabeled Pipes

Work activities may be performed by employees in areas where chemicals are transferred through unlabeled pipes. Prior to starting work in these areas, the employee shall contact the SO at which time information as to; the chemical(s) in the pipes, potential hazards of the chemicals or the process involved, and safety precautions which should be taken will be determined and presented.

Multi-Employer Worksites

It is the responsibility of the SO to provide other employers with information about hazardous chemicals imported by WESTON to which their employees may be exposed, along with suggested safety precautions. It is also the responsibility of SO and the site manager to obtain information about hazardous chemicals used by other employers to which WESTON employees may be exposed. WESTON's chemical listing will be made available to other employers as requested. MSDS's will be available for viewing as necessary.

The location, format and/or procedures for accessing MSDS information must be relayed to affected employees.